

AMENDMENTS TO THE CLAIMS

1-18 (Canceled)

19 (new). A method of tracking a network communication line by a terminal simulating original browser activity of a terminal, the method comprising:

- accessing the network communication line,
- tracing TCP/IP data packets routed through the communication line,
- selecting TCP/IP data packets relating to an IP address as identified data packets,
- selecting from the identified data packets current requests for new connections as original requests,
- selecting from the identified data packets current web page components indicating new addresses as new navigation components,
- organizing the new navigation components into at least a false new components category comprising at least embedded objects or frames and a true new components category comprising at least hyperlinks,
- organizing the original requests into at least a primary request category comprising original requests matching the new components or original requests failing to match any new connection components and belonging to HTTP or POST type and a secondary requests comprising original requests matching the false components or original requests failing to match any new connection components and not belonging to HTTP or POST type,
- selecting, from the identified data packets, HTML data files relating to primary requests as respective primary responses,
- generating virtual secondary requests according to the respective secondary responses,
- selecting respective secondary responses from the identified data packet responses relating to secondary virtual requests, and
- simulating web page presentation on the terminal agent according to the respective secondary responses.

20 (new). The method of claim 19 comprising:

selecting virtual secondary requests not matching any respective original responses as unanswered secondary requests,

retrieving content from local cache of terminal agent as virtual cache if original browser local cache was used relating to unanswered secondary requests,

simulating web page presentation on agent terminal according to data relating to the unanswered secondary requests if the virtual cache contains such data, and

displaying error messages at the respective places on the agent terminal if the virtual cache does not contain data relating to the unanswered secondary requests.

21 (new). The method of claim 20 comprising:

addressing via the communication line to appropriate Internet server for receiving respective simulated responses relating to unanswered secondary requests if the virtual cache does not contain data.

22 (new). The method of claim 19 comprising:

selecting from identified data packets data relating network messages,

transforming message data into a text data file, and

displaying the text data file on a terminal agent.

23 (new). The method of claim 19 wherein the network comprises a local-area network (LAN) and the terminal is connected to the extended communication line.

24 (new). The method of claim 19 wherein the communication line comprises an external communication line comprising at least one of a telephone line, an ISDN line, and an optical line.

25 (new). The method of claim 19 wherein the network comprises a local-area network (LAN) and the terminal agent is situated in a location different from that of the terminal.

26 (new). The method of claim 19 wherein an IP address is identified by a communication line provider (ISP).

27 (new). The method of claim 19 wherein an IP address is identified by a communication line owner.

28 (new). The method of claim 19 wherein an IP address are addresses of web site visitors and identified by a web site owner.

29 (new). A network probe terminal for tracking a network communication line and simulating an original browser activity of a terminal, comprising:

connection means for accessing the network communication line,

monitoring means for tracing TCP/IP data packets routed through the communication line,

a first filtering module for selecting new connection requests as original requests and web page components indicating new addresses as new navigation components out of TCP/IP data packets relating to an IP address as identified data packets,

first sorting means for organizing the new navigation components into at least a false new components category comprising at least embedded objects or frames and a true new components category comprising at least hyperlinks,

second sorting means for organizing the original requests into at least a primary request category comprising original requests matching the new components or original requests failing to match any new connection components and belonging to HTTP or POST type and a secondary requests comprising original requests matching the false components or original requests failing to match any new connection components and not belonging to HTTP or POST type,

a classifying module for selecting HTML data files relating to primary requests as primary responses from the identified data packets,

a request generating module for creating virtual secondary requests according to the respective secondary responses,

a second filtering module for selecting responses relating to secondary virtual requests as secondary responses from identified data packets, and

displaying means for simulating web page presentation on the terminal agent according to the secondary responses.

30 (new). The device of claim 29 wherein the filtering module comprises means for selecting virtual secondary requests currently not matching any respective original responses as unanswered secondary requests.

31 (new). The device of claim 29 comprising a cache module for activating terminal agent local cache in case the original browser local cache has been used in response to unanswered secondary requests.

32 (new). The device of claim 31 comprising a retrieval module for addressing via the communication line to an appropriate internet server and receiving respective simulated responses relating to unanswered secondary requests if the virtual local cache does not contain data.

33 (new). The device of claim 29 comprising an electronic message module for selecting identified data packets data relating to network messages, transforming the message data into a text data file, and displaying the text data file on a terminal.

34 (new). The device of claim 29 wherein an IP address is identified by a communication line provider (ISP).

35 (new). The device of claim 29 wherein an IP address is identified by a communication line owner.

36 (new). The device of claim 29 wherein the IP addresses comprise addresses of web site visitors and identified by a web site owner.